

CLAIMS:

- Sub A³ 1. A diesel engine with a supercharger including a
supercharger for taking in and pressurizing outside air and
5 supplying the pressurized supercharged air into a cylinder, and
a heat exchanger, which is provided in a supercharged air
passage from an outlet port of said supercharger to an inlet port
of said cylinder and cools the supercharged air from said
supercharger,
10 wherein said heat exchanger is a hybrid type of heat
exchanger comprising
a first heat exchanger for carrying out heat exchange between
the supercharged air from the outlet port of said supercharger
and a first heat exchange medium, and
15 a second heat exchanger for carrying out heat exchange between
the supercharged air from an outlet port of said first heat
exchanger and a second heat exchange medium having higher
temperature than said first heat exchange medium, and
supplying the supercharged air after the heat exchange with
20 said second heat exchange medium to said cylinder.
2. The diesel engine with the supercharger in accordance
with Claim 1,
wherein the engine is a water cooling type of engine
25 with the supercharger using cooling water,

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